



B1-21 (GL 1-2) (Floor Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

June 11, 2020 07:26:05

Build 7555

Job name: Address: Kelkari Townhomes Bldg. 1

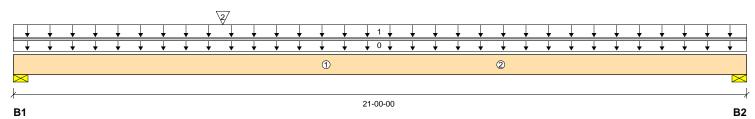
File name: Description:

City, State, Zip:

Specifier:

Customer: Intracorp
Code reports: ESR-1040

Designer: Brent Simmons Company: Boise Cascade



Total Horizontal Product Length = 21-00-00

Reaction Summary (Down / Uplift) (lbs)

 Bearing
 Live
 Dead
 Snow
 Wind
 Roof Live

 B1, 5"
 2697 / 0
 874 / 0

 B2, 3-1/2"
 1543 / 0
 583 / 0

Lo	Load Summary							Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	21-00-00	Top		19				00-00-00
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	21-00-00	Top	40	10				02-00-00
2	GL5-16 Point Load from Bearing Hanger	Conc. Pt. (lbs)	L	06-00-00	06-00-00	Back	2560	640				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	18028 ft-lbs	41.4%	100%	1	06-00-00
End Shear	3383 lbs	24.2%	100%	1	01-07-00
Total Load Deflection	L/490 (0.5")	49.0%	n\a	1	09-09-11
Live Load Deflection	L/652 (0.376")	55.2%	n\a	2	09-09-11
Max Defl.	0.5"	50.0%	n\a	1	09-09-11
Span / Depth	17.5				
Hole Location	Valid				

Hole Summary	Center	Elevation	Ref.	Height	Width	Shape	Orientation
H01 1" Hole	08-11-08	7"	L	1"		Circular	Horizontal
-							
Prescriptive							
H02 1" Hole	13-11-08	7"	L	1"		Circular	Horizontal
_							

Prescriptive

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	5" x 5-1/4"	3571 lbs	21.8%	18.1%	Douglas Fir
B2	Wall/Plate	3-1/2" x 5-1/4"	2126 lbs	18.5%	15.4%	Douglas Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Calculations assume member is fully braced. BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





B1-20 (GL 2-3) (Floor Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

June 11, 2020 07:33:06

Build 7555

Job name: Address: Kelkari Townhomes Bldg. 1

File name: Description:

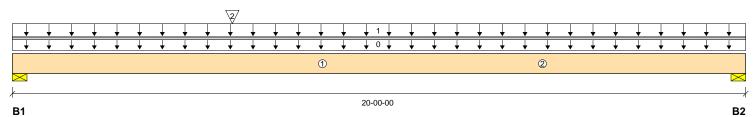
City, State, Zip:

Code reports:

Customer:

Intracorp ESR-1040 Specifier:

Designer: Brent Simmons Company: Boise Cascade



Total Horizontal Product Length = 20-00-00

Reaction Summary (Down / Uplift) (lbs)

 Bearing
 Live
 Dead
 Snow
 Wind
 Roof Live

 B1, 3-1/2"
 2604 / 0
 840 / 0

 B2, 3-1/2"
 1556 / 0
 578 / 0

Lo	Load Summary							Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	20-00-00	Top		19				00-00-00
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	20-00-00	Top	40	10				02-00-00
2	GL5-16 Point Load from Bearing Hanger	Conc. Pt. (lbs)	L	06-00-00	06-00-00	Back	2560	640				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	17737 ft-lbs	40.7%	100%	1	06-00-00
End Shear	3270 lbs	23.4%	100%	1	01-05-08
Total Load Deflection	L/527 (0.445")	45.6%	n\a	1	09-04-00
Live Load Deflection	L/699 (0.336")	51.5%	n\a	2	09-04-00
Max Defl.	0.445"	44.5%	n\a	1	09-04-00
Span / Depth	16.8				
Hole Location	Valid				

Hole Summary	Center	Elevation	Ref.	Height	Width	Shape	Orientation
H01 1" Hole	08-05-08	7"	L	1"		Circular	Horizontal
-							
Prescriptive							
H02 1" Hole	14-05-08	7"	L	1"		Circular	Horizontal
-							

Bearin	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 5-1/4"	3444 lbs	30.0%	25.0%	Douglas Fir
B2	Wall/Plate	3-1/2" x 5-1/4"	2134 lbs	18.6%	15.5%	Douglas Fir

Notes

Prescriptive

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Calculations assume member is fully braced. BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

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PASSED

B1-20 (GL 3-4) (Floor Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

June 11, 2020 07:35:32

Build 7555

Job name: Address: Kelkari Townhomes Bldg. 1

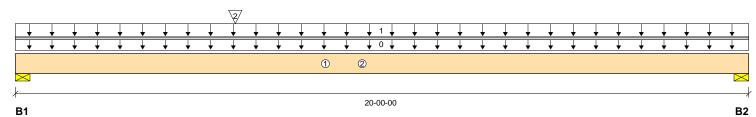
File name: Description:

City, State, Zip:

Specifier:

Customer: Intracorp
Code reports: ESR-1040

Designer: Brent Simmons
Company: Boise Cascade



Total Horizontal Product Length = 20-00-00

Reaction Summary (Down / Uplift) (lbs)

 Bearing
 Live
 Dead
 Snow
 Wind
 Roof Live

 B1, 3-1/2"
 2604 / 0
 840 / 0

 B2, 3-1/2"
 1556 / 0
 578 / 0

Loa	oad Summary							Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	20-00-00	Top		19				00-00-00
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	20-00-00	Top	40	10				02-00-00
2	GL5-16 Point Load from Bearing Hanger	Conc. Pt. (lbs)	L	06-00-00	06-00-00	Back	2560	640				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	17737 ft-lbs	40.7%	100%	1	06-00-00
End Shear	3270 lbs	23.4%	100%	1	01-05-08
Total Load Deflection	L/527 (0.445")	45.6%	n\a	1	09-04-00
Live Load Deflection	L/699 (0.336")	51.5%	n\a	2	09-04-00
Max Defl.	0.445"	44.5%	n\a	1	09-04-00
Span / Depth	16.8				
Hole Location	Valid				

Hole Summary	Center	Elevation	Ref.	Height	Width	Shape	Orientation
H01 1" Hole	08-05-08	7"	L	1"		Circular	Horizontal
-							
Prescriptive							
H02 1" Hole	09-05-08	7"	L	1"		Circular	Horizontal .
-							

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 5-1/4"	3444 lbs	30.0%	25.0%	Douglas Fir
B2	Wall/Plate	3-1/2" x 5-1/4"	2134 lbs	18.6%	15.5%	Douglas Fir

Notes

Prescriptive

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Calculations assume member is fully braced. BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

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PASSED

B1-21 (GL 4-5) (Floor Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

June 11, 2020 07:40:26

Build 7555

Job name: Address: Kelkari Townhomes Bldg. 1

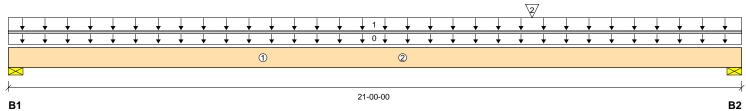
File name:
Description:
Specifier:

City, State, Zip: Customer:

Code reports:

Intracorp ESR-1040

Designer: Brent Simmons Company: Boise Cascade



Total Horizontal Product Length = 21-00-00

Reaction Summary (Down / Uplift) (lbs)

 Bearing
 Live
 Dead
 Snow
 Wind
 Roof Live

 B1, 3-1/2"
 1538 / 0
 581 / 0

 B2, 5-1/2"
 2702 / 0
 875 / 0

Load Summary						Live	Dead	Snow	Wind	Roof Live	Tributary	
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	21-00-00	Top		19				00-00-00
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	21-00-00	Top	40	10				02-00-00
2	GL5-16 Point Load from Bearing Hanger	Conc. Pt. (lbs)	R	06-00-00	06-00-00	Back	2560	640				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	17922 ft-lbs	41.2%	100%	1	15-00-00
End Shear	3385 lbs	24.2%	100%	1	19-04-08
Total Load Deflection	L/493 (0.496")	48.7%	n\a	1	11-02-05
Live Load Deflection	L/657 (0.372")	54.8%	n\a	2	11-02-05
Max Defl.	0.496"	49.6%	n\a	1	11-02-05
Span / Depth	17.5				
Hole Location	Valid				

Hole Summary	Center	Elevation	Ref.	Height	Width	Shape	Orientation
H01 1" Hole	07-03-08	7"	L	1"		Circular	Horizontal
-							
Prescriptive							
H02 1" Hole	11-03-08	7"	L	1"		Circular	Horizontal
_							

Prescriptive

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 5-1/4"	2119 lbs	18.4%	15.4%	Douglas Fir
B2	Wall/Plate	5-1/2" x 5-1/4"	3578 lbs	19.8%	16.5%	Douglas Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Calculations assume member is fully braced. BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

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